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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,374	12/04/2003	Ram M. Rao	S01.12-1007/STL 11516	6966
27365	7590	01/20/2006	EXAMINER	
SEAGATE TECHNOLOGY LLC C/O WESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400 - INTERNATIONAL CENTRE 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319			EVANS, JEFFERSON A	
			ART UNIT	PAPER NUMBER
			2652	

DATE MAILED: 01/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/727,374

Applicant(s)

RAO ET AL.

Examiner

Jefferson A. Evans

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 8-13, 16-18, 21 and 22 is/are rejected.
- 7) ☒ Claim(s) 4-7, 14, 15, 19, 20 and 23 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

This application is a Continuation-In-Part of Serial No. 09/832,050 filed 4-10-2001, now U.S. Patent No. 6,678,119.

Claims 1 to 23 are pending.

Drawings

1. The drawings are objected to because drawing sheet 3 is labeled as sheet 3/3 when in fact it is sheet 3/6. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the application filing date must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3, 8-13, 16, 17, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Sannino et al (U.S. 6,490,135). As per Claims 1 and 21: Note figure 2 for example which shows a slider 110 comprising an aerodynamic surface which comprises: a first bearing surface 218, disposed on the aerodynamic surface, defining a bearing height; a cavity floor 236 disposed on the aerodynamic surface at a cavity depth below the bearing height; and a first recessed pressurization surface 222, which will provide above-ambient fluid pressure when the slider is in nominal flight, which is greater than fluid pressure provided elsewhere on a trailing half of the aerodynamic surface at a substantial displacement from a longitudinal centerline of the aerodynamic surface; the first recessed pressurization surface being disposed on the aerodynamic surface at a recessed depth which is between the bearing height and the cavity depth. The first recessed pressurization surface is recessed 0.1 to 0.5 microns while the cavity floor is recessed 1 to 3 microns. As per Claim 3: the first recessed pressurization surface 222 includes channel bottom surface 272 and this surface extends close enough the slider trailing end 202 to be considered proximate thereto. As per Claim 8: there is a recessed pressurization surface 222 adjacent each of the sides 204,206 of the slider so one of them can be considered the first recessed pressurization surface and one can be considered the second recessed pressurization surface. As per claim

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9: the second recessed pressurization surface 222 will be between the first bearing surface 218 and the trailing end 202 of the slider. As per Claim 10: there are left and right side bearing surfaces and there are left and right recessed pressurization surfaces and the recessed pressurization surfaces are between the bearing surfaces and the trailing edge of the slider. Claim 11: surface 230 reads on a third surface at the recessed depth. Claim 12: surface 242 reads on a bearing surface adjacent the trailing edge of the slider and including a data interface head 244. As per Claim 13: note channel 260 which includes side walls and a back dam and is open at a leading side. As per Claim 16: cavity dam leading edge 232 can be considered an aerodynamic surface leading wall. As per Claim 17: the slider includes a data interface head 244.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

4. Claims 2, 18, and 22 rejected under 35 U.S.C. 102(e) as being anticipated by Griffin et al (U.S. 6,501,621). Note figure 1 for example which shows a slider 100 comprising an aerodynamic surface which comprises: a first bearing surface 134, disposed on the aerodynamic surface, defining a bearing height; a cavity floor 136 disposed on the aerodynamic surface at a cavity depth below the bearing height; and first and second recessed pressurization surfaces 114,118 which will provide above-

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ambient fluid pressure when the slider is in nominal flight, which is greater than fluid pressure provided elsewhere on a trailing half of the aerodynamic surface at a substantial displacement from a longitudinal centerline of the aerodynamic surface; the recessed pressurization surfaces being disposed on the aerodynamic surface at a recessed depth which is between the bearing height and the cavity depth. The recessed pressurization surfaces are recessed 50 to 300 nanometers for example while the cavity floor is 500 to 3000 nanometers.

Basis for the recessed depth being at most 550 angstroms is not found in the parent application and thus the effective filing date for this limitation is 12-4-2003 and Griffin may properly be applied in a rejection of claims including this limitation.

Allowable Subject Matter

5. Claims 4-7, 14, 15, 19, 20, and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, A. L. Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Jefferson A. Evans', with a large, stylized flourish extending from the end of the signature.

JAE
January 13, 2006

Jefferson A. Evans
Primary Examiner
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**JEFFERSON EVANS
PRIMARY EXAMINER**